	INTERNATIONAL SEARCH REFORT		PCT/JP2	004/011025	
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L21/3065					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01L21/3065, H01L21/263, H01L21/205					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relev	ant passages	Relevant to claim No.	
А	Sin IGARASHI et al., In-situ surface blistering in silicon and helium ion irradiation. S ings Technology. September 20 159, pages 421 to 425	by deuteriusurface and C	m Coat	1-11,14,15, 18,19	
A	Koji NAKAYAMA and J.H. Weaver, Electron- Stimulated Modification of Si Surface. Physical Review Letters. February 1999, Vol.82, No.5, pages 980 to 983			1-11,14,15, 18,19	
A	LJ. Huang et al., Onset of blistering in hydrogen-implanted silicon. APPLIED PHYSICS LETTERS. February 1999, Vol.74, No.7, pages 982 to 984			1-11,14,15, 18,19	
	currents are listed in the continuation of Box C.	See patent far	nily annex.		
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance 		date and not in c the principle or t	onflict with the applications underlying the in-		
"E" earlier application or patent but published on or after the international filing date		considered nov	el or cannot be consid	laimed invention cannot be dered to involve an inventive	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvlous to a person skilled in the art			
"P" document pu	ublished prior to the international filing date but later than date claimed		er of the same patent i		
Date of the actual completion of the international search 22 October, 2004 (22.10.04)		Date of mailing of the international search report 09 November, 2004 (09.11.04)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			

Telephone No.

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/011025

		PCT/JP2	004/011025
C (Continuation)). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	Tetsuya NARUSHIMA, "Denshi Shosha ni yoru Silicon Hyomen Oryoku no Kanwa", Hyomen Kagaku, 10 September, 2001 (10.09.01), Vol.22, No.9, pages 614 to 619		1-11,14,15, 18,19
Α .	WO 01/011930 A2 (SILICON GENESIS CORP.), 15 February, 2001 (15.02.01), Full text & JP 2003-506883 A & US 2003-124815		1-11,14,15, 18,19
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	0 (continuation of second sheet) (January 2004)		

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International application No.
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Box No.	II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This inte	rnational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
· 2. 🗶	Claims Nos.: 12, 13, 16, 17 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: (See extra sheet.)
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Bex No.	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Into	emational Searching Authority found multiple inventions in this international application, as follows:
	,
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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Continuation of Box No.II-2 of continuation of first sheet(2)

The pattern of the atom species of the surface-structuring atoms stated in claim 12 is for specifying the invention by means of the brought result. However, since no specific example is given in the description, disclosure within the meaning of PCT Article 5 is lacked, and the invention is not supported by the disclosure of the description within the meaning of PCT Article 6.

The meaning that the pattern is one different in formation of a layer lower than surface stated in claim 13 is unclear. Therefore, this claim lacks the requirement of clarity within the meaning of PCT Article 6.

No specific example of the affinity pattern stated in claim 16 is given in the description. Therefore, disclosure within the meaning PCT article 5 is lacked, and the invention is not supported by the disclosure of the description within the meaning of PCT Article 6.

No specific example of the hydrophilic or hydrophobic pattern stated in claim 17 is given in the description. Therefore, disclosure within the meaning of PCT Article 5 is lacked, and the invention is not supported by the disclosure of the description within the meaning of PCT Article